

NOAA DIVING PROGRAM EMERGENCY OXYGEN KIT ELDER VALVE TEST INSTRUCTIONS

URGENT – Please perform this simple test immediately upon receipt and then forward to the next unit as instructed below. Your promptness is critical to this test system support of field evaluations.

FRAGILE – Please be careful in handling this test kit. Dropping the unit will damage the gauge.

The purpose of this test kit is to verify the Elder valve included in your NOAA diver emergency oxygen delivery kit is operating within specification.

Preparation:

1. Before attempting to use the test kit, connect the demand valve to an oxygen supply capable of delivering **160 LPM at 40-90 psig (issued NDC oxygen kits meet these standards)**. The outlet of the demand valve must not be blocked.
2. Slowly open the oxygen supply valve. Oxygen should flow from the demand valve momentarily, but stop completely (no audible leaks) in approximately one second.
3. Depress the positive pressure button. A high flow of oxygen should be apparent from the Elder valve, and the valve should not whistle. Airflow should cease immediately when the button is released. If the valve continues to flow or a leak is apparent, the valve needs to be serviced.

Test:

1. Insert the Elder valve into the open end of the T-fitting on the “test lung”, opposite the pressure gauge (as shown).
2. Slowly depress the positive pressure button fully. **The gauge should read between 32 – 48 mm Hg.** Note the final pressure reading.

If the gauge reaches 60 mm Hg, release the button to prevent lung (balloon) rupture.

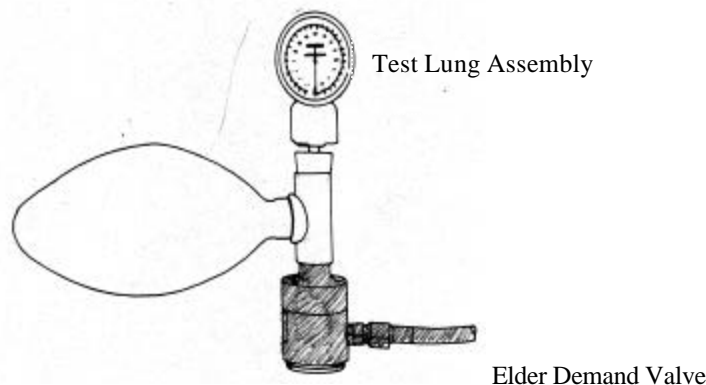
3. Release the positive pressure button. The test lung should deflate immediately.
4. If it does not deflate immediately, check the exhalation valve for improper alignment, or blockage by debris.

Post-Test:

1. Record test value on test form included with the kit. Mail, fax or e-mail the test form to the NDC.

**NOAA Diving Center
7600 Sand Point Way NE
Seattle, WA 98115
Fax: 206 526-6506**

2. **Make sure you replace all pieces and instructions of the test kit back into pelican case. Place in the shipping box. Mail the test kit to the next unit below your unit on the included mailing list.**
3. If your oxygen kit did not pass this test contact the NOAA Diving Center for coordinating repair.



NOAA DIVING PROGRAM

EMERGENCY OXYGEN KIT ELDER VALVE TEST RESULTS

Unit Name: _____

Name of tester: _____

Date of test: _____

Gauge Reading: _____ - must be within spec of 32 – 40 mm Hg

If not within spec, contact the NOAA Diving Center

After test is completed fax results to: 206/526-6506

NOAA Diving Center

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